

PLEASE **AMEND** THE SPECIFICATION AS FOLLOWS:

On page 1, line 1 – page 2, line 13, please amend the specification as follows:

VIGIP002 – Event Monitoring and Detection System

By Inventors:

Kevin Tu

Peiwei Mi

Jon Golovin

Subhash Tantry

~~Bing Chen~~

CROSS-REFERENCE TO RELATED APPLICATIONS

This application claims priority of U.S. Provisional Application No. 60/285,647, Attorney Docket No. VIGIP001P, entitled “BUSINESS EVENT MONITORING AND DETECTION SYSTEM,” filed on April 19, 2001, which is hereby incorporated by reference for all purposes.

This application also claims priority of U.S. Provisional Application No. 60/296,948.
 , Attorney Docket No. VIGIP007P, entitled “EVENT MONITORING, DETECTION AND NOTIFICATION SYSTEM HAVING SECURITY AND COLLABORATIVE FUNCTIONS,” filed on June 8, 2001, which is hereby incorporated by reference for all purposes.

This application also claims priority of U.S. Provisional Application No. 60/299,669.
 , Attorney Docket No. VIGIP006P, entitled “COLLABORATIVE RESOLUTION AND TRACKING OF DETECTED EVENTS AND CONDITIONS,” filed on June 19, 2001, which is hereby incorporated by reference for all purposes.

This invention is also related to U.S. Patent Application Serial No. 09/886,393.
 , Attorney Docket No. VIGIP001, filed on the same day as this patent application, naming B. Chen et al. as inventors, and entitled “DATA RETRIEVAL AND TRANSMISSION

SYSTEM.” That application is incorporated herein by reference in its entirety and for all purposes.

This invention is also related to U.S. Patent Application Serial No. 09/886,408, Attorney Docket No. VIGIP003, filed on the same day as this patent application, naming K. Tu et al. as inventors, and entitled “EVENT NOTIFICATION SYSTEM.” That application is incorporated herein by reference in its entirety and for all purposes.

This invention is also related to U.S. Patent Application Serial No. 09/886,402, Attorney Docket No. VIGIP004, filed on the same day as this patent application, naming N. Kumar et al. as inventors, and entitled “SECURITY SYSTEM FOR EVENT MONITORING, DETECTION AND NOTIFICATION SYSTEM.” That application is incorporated herein by reference in its entirety and for all purposes.

This invention is also related to U.S. Patent Application Serial No. 09/886,403, Attorney Docket No. VIGIP005, filed on the same day as this patent application, naming P. Mi et al. as inventors, and entitled “EVENT MONITORING, DETECTION AND NOTIFICATION SYSTEM.” That application is incorporated herein by reference in its entirety and for all purposes.

On page 47, line 20 – page 48, line 20, please amend the specification as follows:

The follow-by paired event type 2612 indicates that a first one of the specified set of events is to be followed by a second one of the specified set of events. In addition, it may be desirable to require that both events must occur (or be detected) within a specified period of time. For example, it may be desirable to detect when a first event (e.g., order placed) is followed (or not followed) by a second event (e.g., order shipped) within a specified period of time (e.g., two weeks). As another example, it may be desirable to detect a “ready for shipment within promised ship date – 2 days” event subsequent to an “order placed” event. In this manner, two different events may be effectively “joined.” In this example, an entering event is received at block 2628. A time window or register timer is calculated at block 2630. Data (e.g.,

attributes and/or metrics) associated with the event are stored at block 2632 if the persist flag is set. When it is determined that the appropriate second following event has been detected (e.g., within the specified period of time), this paired event has been matched at block 2634. The stored event data may then be removed from the database at block 2636 if the persist flag is set. In addition, an exception is generated (e.g., via construction of an exception object) at block 2624. However, if the second following event is determined not to match the “paired event” specifications at block 2634, the second following event may be discarded at block 2638. In other words, this second following event need not be stored if it is not the correct “following event.” A timer mechanism 2640 is preferably maintained in order to determine whether timing requirements are satisfied. In addition, timing flows (e.g., fired timer events) are further indicated by dotted lines. Thus, in this example, if the second following event is never received, or not received within the specified time, the stored event data for the entering event (i.e., first event) is located at block 2642 and discarded at block 2644. More particularly, the persist flag may be checked to verify that the event is to be discarded in association with the follow-by paired event condition.

On page 48, line 20- page 49, line 13, please amend as follows:

The cancel-by paired event type 2614 indicates a first one of the specified set of events to be canceled upon detection of a second one of the specified set of events. More particularly, it may be desirable to cancel the first event when the second event occurs or is detected within a specified period of time of the first event. For example, the first event may be a “scheduled machine maintenance” which may be canceled by occurrence or detection of the second event, “machine up within 2 days.” Thus, when the first, entering event is received at block 2646, a

time window or register timer is calculated at block 2648 to ensure that both events occur within the same time window. Event data (e.g., event attributes and/or metrics) may then be stored at block 2650 (e.g., when the persist flag is set). When the second matching event is detected at block 2652, the data associated with the first, entering event may be removed at block ~~2656~~ 2654 (e.g., when the persist flag is set) and an exception object may be constructed and transmitted at block 2624. However, if the second event that is received is not the correct matching event, the data associated with the first event may be discarded at block 2654. If the second event is not received or not received within the specified time window, the data associated with the stored entering, first event may be located at block 2658 and discarded at block 2660 (e.g., if the persist flag is set). In this manner, it is possible for managers to evaluate personnel such as those responsible for machine maintenance.

On page 14, lines 3-13, please amend the specification as follows:

Once data is obtained by the adapter 102, at least a portion of the data is flagged (e.g., labeled, marked or indexed) to identify one or more business events of interest to the business. In this manner, the data is given meaning within a particular business context. An exemplary diagram illustrating data that is flagged to identify business events of interest to a business will be shown and described in further detail below with reference to FIG. 2. The flagged data 112 is then provided by the adapter 102 for access by other components. More particularly, the flagged data 112 may be transmitted via the message bus 110. For instance, as described above, other components that enable detection and notification of various events or states of events may access the modified data via the message bus 110. In this manner, the business events identified by the modified data may be monitored and detected.